



|  |   |   |
|--|---|---|
| <b>SUBSTITUTE FORM PTO-1449</b><br><b>U.S. DEPARTMENT OF COMMERCE</b><br><b>U.S. PATENT AND TRADEMARK OFFICE</b> | <b>ATTY. DOCKET NO.</b><br>43826-0003 US        | <b>APPLICATION NUMBER</b><br>10/759,878 |
|  | <b>FIRST NAMED INVENTOR</b><br><br>REICH et al. |   |
|  | <b>FILING DATE</b><br>January 16, 2004          | <b>ART UNIT</b><br>1635                 |

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT****U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIALS | Cite<br>No. | DOCUMENT NUMBER                | PUBLICATION DATE<br>(MM/DD/YYYY) | NAME OF PATENTEE OR APPLICANT OF<br>CITED DOCUMENT | PAGES, COLUMNS,<br>LINES, WHERE<br>RELEVANT PASSAGES<br>OR RELEVANT FIGURES<br>APPEAR |
|----------------------|-------------|--------------------------------|----------------------------------|--|---|
|                      |             | Number-Kind Code<br>(if known) |                                  |  |   |
| TCG                  | A           | 2002/0086356 A1                | 07/04/2002                       | TUSCHL et al.                                      |   |
| TCG                  | B           | 2002/0132788 A1                | 09/19/2002                       | LEWIS et al.                                       |   |
| TCG                  | C           | 2002/0162126 A1                | 10/31/2002                       | BEACH et al.                                       |   |
| TCG                  | D           | 2002/0173478 A1                | 11/21/2002                       | GEWIRTZ  |   |
| TCG                  | E           | 6,506,559                      | 11/14/2003                       | FIRE al.   |   |
| TCG                  | F           | 6,177,401                      | 01/23/2001                       | ULLRICH et al.                                     |   |

**FOREIGN PATENT DOCUMENTS**

| EXAMINER<br>INITIALS | Cite<br>No. | FOREIGN PATENT<br>DOCUMENT                      | PUBLICATION DATE<br>(MM/DD/YYYY) | NAME OF PATENTEE OR APPLICANT OF<br>CITED DOCUMENT                     | PAGES, COLUMNS,<br>LINES, WHERE<br>RELEVANT PASSAGES<br>OR RELEVANT FIGURES<br>APPEAR | T |
|----------------------|-------------|---|----------------------------------|--|---|---|
|                      |             | Country Code-Number-<br>Kind Code<br>(if known) |                                  |  |   |   |
| TCG                  | G           | CA 2359180                                      | 08/03/2000                       | KREUTZER et al.  |   |   |
| TCG                  | H           | WO03/099298A1                                   | 12/04/2003                       | Maxplanck Gesellschaft Zur Forderung<br>Der Wissenschaften E.V. et al. |   |   |

**NON PATENT LITERATURE DOCUMENTS**

| EXAMINER<br>INITIALS   | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal,<br>serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Publisher, city and/or country where published | T                             |
|--|-------------|---|-------------------------------|
| TCG  | I           | Bennett et al., <i>Hum Gene Ther</i> 10:1763-1769 (abstract) (Sept. 1996)   |                               |
| TCG  | J           | Elbashir et al., <i>Nature</i> , 411:494-498 (24 May 2001)  |                               |
| TCG  | K           | Elbashir et al., <i>Genes &amp; Development</i> 15:188-200 (2001)   |                               |
| TCG  | L           | Erickson, D., "RNAi Revs Up", <i>Start-Up</i> (A#2002900168) pp. 1-12 (Oct. 2002)   |                               |
| EXAMINER<br>SIGNATURE  |             | /Terra Cotta Gibbs/   | DATE CONSIDERED<br>08/18/2006 |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to applicant. |             |   |                               |

|   |   |   |
|---|---|---|
| SUBSTITUTE FORM PTO-1449<br>U.S. DEPARTMENT OF COMMERCE<br>U.S. PATENT AND TRADEMARK OFFICE<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | ATTY. DOCKET NO.<br><b>43826-0003 US</b>        | APPLICATION NUMBER<br><b>10/759,878</b> |
|   | FIRST NAMED INVENTOR<br><br><b>REICH et al.</b> |   |
|   | FILING DATE<br><b>January 16, 2004</b>          | ART UNIT<br><b>1635</b>                 |

### NON PATENT LITERATURE DOCUMENTS

| EXAMINER INITIALS  | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), Publisher, city and/or country where published               | T               |
|--|----------|--|-----------------|
| TCG  | M        | Fire et al., <i>Nature</i> , 391:806-811 (19 Feb. 1998)  |                 |
|  | N        | Holash et al., <i>PNAS</i> , 99(17):11393-11398 (Aug. 20, 2002)  |                 |
|  | O        | Kim et al., <i>PNAS</i> , 99(17):11399-11404. (Aug. 20, 2002)  |                 |
|  | P        | Miyamoto et al., "Vascular endothelial Growth Factor (VEGF)-Induced Retinal Vascular Permeability is mediated by Intercellular Adhesion Molecule-1 (ICAM-1)", <i>American Journal of Pathology</i> 156(5):1733-1739 (May 2000)   |                 |
|  | Q        | Miyamoto et al., "Prevention of Leukostasis and vascular leakage in streptozotocin-induced diabetic retinopathy via intercellular adhesion molecule-1 inhibition", <i>Proc. Natl. Acad. Sci USA</i> 96:10836-10841 (September 1999)  |                 |
|  | R        | Moromizato et al., "CD18 and ICAM-1-Dependent Corneal Neovascularization and Inflammation after Limbal Injury", <i>American Journal of Pathology</i> 157(4) (October 2000)   |                 |
|  | S        | Novina et al., <i>Nature Medicine</i> , 8(7):81-686 (July 2002)  |                 |
|  | T        | Sakurai et al., "Targeted disruption of the CD18 or ICAM-1 gene inhibits choroidal neovascularization", <i>Invest. Ophthalmol Vis. Sci.</i> 44(6):2743-9 (2003) ABSTRACT ONLY  |                 |
|  | U        | Tischer et al., <i>J. Biol Chem</i> 266:11947-11954 (abstract) (June 25, 1991)   |                 |
|  | V        | Tuschl, T., The siRNA user guide (revised October 11, 2002), Accessed from <a href="http://www.mpibpc.gwdg.de/abteilungen/100/105/sima.html">http://www.mpibpc.gwdg.de/abteilungen/100/105/sima.html</a> on 11/1/2002.   |                 |
|  | W        | Tuschl, T., <i>Nat. Biotech</i> 20: 446-448 (May 2002)   |                 |
|  | X        | Van Brunt, J., <i>Signals Magazine</i> : "Buzz – Shoot the Messenger" 08/22/2002, Accessed from <a href="http://www.signalsmag.com/signalsmag.../3DF5AEF6049CC81C99256C1D0055BAA">http://www.signalsmag.com/signalsmag.../3DF5AEF6049CC81C99256C1D0055BAA</a> on 10/28/2002. |                 |
|  | Y        | Wu et al., <i>Mol Cell Biol</i> , Vol. 22:22: 7758-7768 (abstract) (Nov. 2002)   |                 |
| TCG  | Z        | Xia et al., <i>Nature Biotechnology</i> , Vol. 20:1006-1010 (Oct. 2002)  |                 |
| EXAMINER SIGNATURE   |          | /Terra Cotta Gibbs/  | DATE CONSIDERED |
|  |          |  | 08/18/2006      |
| EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.<br>Include copy of this form with next communication to applicant. |          |  |                 |



|   |                     |  |                             |   |  |   |
|---|---------------------|--|-----------------------------|---|--|---|
| Substitute form 1449 PTO<br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |                     |  |                             | <b>Complete if Known</b>                        |  |   |
|   |                     |  |                             | Application Number                              | 10/759,878                                       |   |
|   |                     |  |                             | Filing Date                                     | January 16, 2004                                 |   |
|   |                     |  |                             | First Named Inventor                            | Reich  |   |
|   |                     |  |                             | Group Art Unit                                  | 1635   |   |
|   |                     |  |                             | Examiner Name                                   | Not Yet Assigned Gibbs                           |   |
| Sheet   | 1                   | of   | 1                           | Attorney Docket Number                          |  | 129402.00701  |
| <b>U.S. PATENT DOCUMENTS</b>  |                     |  |                             |   |  |   |
| Examiner's Initials   | Cite No.            | U.S. Patent Document   |                             | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|   |                     | Number   | Kind Code (if known)        |   |  |   |
| TCG   | AA                  | 6,015,894  |                             | Bennet et al.                                   | 01-18-2000                                       |   |
| <b>FOREIGN PATENT DOCUMENTS</b>   |                     |  |                             |   |  |   |
| Examiner's Initials   | Cite No.            | Foreign Patent Document  |                             | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|   |                     | Office   | Number Kind Code (if known) |   |  |   |
|   |                     |  |                             |   |  |   |
| <b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>   |                     |  |                             |   |  |   |
| Examiner's Initials   | Cite No.            | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published. |                             |   |  |   |
| TCG   | CA                  | KATZ et al., ICAM-1 Antisense Oligodeoxynucleotide Improves Islet Allograft Survival and Function, 2000, Cell Trans. 9:817-828   |                             |   |  |   |
| TCG   | CB                  | DRAGUN et al., ICAM-1 antisense oligodesoxynucleotides prevent reperfusion injury and enhance immediate graft function in renal transplantation, 1998, Kidney Inter. 54:590-602  |                             |   |  |   |
| TCG   | CC                  | ELBASHIR et al., Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells, 2001, Nature 411:494-498   |                             |   |  |   |
| TCG   | CD                  | AGRAWAL et al., Antisense therapeutics: is it as simple as complementary base recognition?, 2000, Mol. Med. Today 6:72-81  |                             |   |  |   |
| TCG   | CE                  | JEN et al., Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies, 2000, Stem Cells 18:307-319  |                             |   |  |   |
| TCG   | CF                  | COBURN et al., siRNAs: a new wave of RNA-based therapeutics, 2003, J. Antimicrobial Chemotherapy 51:753-756  |                             |   |  |   |
| TCG   | CG                  | CAPLEN, RNAi as a gene therapy approach, 2003, Expert Opin. Biol. Ther. 3(4):575-586   |                             |   |  |   |
| TCG   | CH                  | AGAMI, RNAi and related mechanisms and their potential use for therapy, 2002, Curr. Op. Chem. Biol. 6:829-834  |                             |   |  |   |
| Examiner Signature  | /Terra Cotta Gibbs/ |  |                             | Date Considered                                 | 08/18/2006                                       |   |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.